aico®

Smoke Alarm Systems for the Deaf & Hearing Impaired

Four Levels of Protection & Security

Specifier's First Choice
Ei169/160 - Hard wired interconnect to 10 Year, Mains Rechargeable Smoke Alarm System

Ei169RF - Wire free Radio Signal Technology to Smoke Alarm System

Owner Occupier Options
Ei176 - Smoke Alarm powered from Control Panel

Ei176RF - Wire free Radio Signal Interconnect to PP3 Battery Powered Smoke Alarm



People with hearing difficulties require a different approach to fire protection, as a conventional alarm sounder will not be sufficient for their needs. Aico's range of alarms for the deaf and hearing impaired are the only units currently manufactured by an experienced European smoke alarm supplier. They are also available with RadioLINK wire free radio signal technology, for ease of installation.

System Features & Benefits

- Control panel with rechargeable battery back-up, mains power supply lead and 13 amp Plug
- High intensity integral strobe light
- Auxiliary socket for connection of additional optional strobe lights
- Vibrating pad for placing under a pillow or mattress
- Capability for interconnection of up to 12 smoke alarms
- Test button on control panel for testing the system
- Connections are monitored to check integrity of system
- Alarm clock input facility
- Remote trigger option
- Pager output facility

Ei Professional®

Specification for Smoke & Heat Alarms for the Deaf & Hearing Impaired

System Model No.	Control Panel With Integral Strobe	Vibrating Pad	Installation	Smoke Alarm Options	
				Ionisation	Optical
Ei169/160	✔	✔	**Hardwired**	**Ei161** (not supplied)	**Ei166** (not supplied)
Ei169RF	✔	✔	RadioLINK®	Mains option only **Ei161** (not supplied) use with **Ei168** RadioLINK Base (not supplied)	Mains option **Ei166** (not supplied) use with **Ei168** RadioLINK base (not supplied) Battery operated options **Ei405TY** RadioLINK alarm with 10 Year Lithium cells **Ei405** RadioLINK alarm with Alkaline Battery
Ei176	✔	✔	**Hardwired**	Not available	Supplied with smoke alarm powered from the control panel
Ei176RF	✔	✔	RadioLINK®	Not available	Supplied with RadioLINK smoke alarm powered by an integral PP3 battery

Specification

Power supply: 220/240 VAC, 50/60 Hz
Electrical Safety: Complies with BS415: 1990.
Ambient temperature: 4° to 40°C Humidity 0% to 90% RH
Strobe: Intense built-in Xenon tube flashes every second.
Battery: Long-life sealed lead-acid rechargeable battery: Standby capacity 7 days (followed by 4 minutes alarm) - 5 year lifespan in normal use.
Indicator Lights: Green - mains supply; Red flashing - battery supply only. With mains off, red light goes off as battery becomes depleted.
Mounting: Designed for wall mounting with fixing screws provided
Power Switch: Slide switch disconnects mains and battery power from panel. Extinguishes both LEDs.
Test Button: Checks strobe, vibration pad and panel (also smoke alarms on Ei169RF & Ei176RF models)
Mains Transformer: Mounted in a separate box, hard-wired to control panel with 4m of low voltage cable. Supplied with 2m of mains cable and 13 amp plug.
Vibrating pad: Supplied with all models. Suitable for mattresses or pillows. Produces strong pulsed vibrations suitable for waking sleepers. Supplied with locking plug and 2m of cable.
Vibration Pad Socket: Locking socket (JST type VHR-2N) provided for vibration pad. Output 12V/200mA is pulsed in alarm for greater effect. Wiring is monitored - if vibration pad is not connected or if it is open circuit the strobe will flash.
Aux Socket: Locking socket for extra strobe (Ei178) or vibration pad etc. provides 12V/200mA in alarm.
Smoke Alarm Wiring (Not Ei176RF & Ei169RF): Low voltage cable (10m) is supplied hard-wired to the panel for connection to the smoke alarm. Wiring is monitored - if it is not connected or if it is open/short circuited the strobe will flash and vibration pad will turn on.
Clock Input: Used with alarm clocks, so only one vibration pad is needed under mattress/pillow. 5 to 24 volts (AC or DC mains isolated) will turn on vibrator pad only i.e. no strobe. Socket takes 3.5mm mono jack plug.
Interconnection: Up to 12 smoke alarms can be interconnected.
Control Devices: RadioLINK models Ei169RF and Ei176RF can be connected to RadioLINK Test & Hush Switch Ei411 and Remote Relay Module Ei428 for signalling to a Warden Call System.

Operation

- **Green mains indicator illuminates to show mains power is present**
- **Red battery indicator flashes when mains power is off to show that the unit is running on battery only power. The red indicator goes off when the battery is fully depleted**
- **The slide switch on the control panel disconnects the mains and battery power from the control panel and extinguishes both the red and green indicators**
- **The Test button on the side of the control panel checks the operation of the strobe light and vibrating pad on all models. In addition, it activates the smoke alarm and any other RadioLINK control devices on Ei169RF and Ei176RF models**
- **When any of the smoke alarms are activated the control panel will flash the strobe light once per second and also activate the vibrating pad**
- **The Auxiliary socket allows the connection of an additional strobe, vibrating pad or to trigger a radio frequency pager**

RadioLINK® Extra Features

Ei411 - Test & Locate Switch
A completely wire-free, wall mounted switch designed for use with the Ei169RF and Ei176RF models. Allows easy control of false alarms without having to reach up to the smoke alarm.

Ei428 - Remote Relay Module
Ideal for use with the Ei169RF and Ei176RF models to signal an alarm to a Warden Call System. The module is wire-free except for a connection to the mains supply.

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